

DIFFERENTIAL

SERVICE DATA

Differential

Rear differential carrier oil seal drive in depth	7.0 +-0.5 mm (0.28 +-0.02 in.)
Rear differential side gear shaft oil seal drive in depth	7.2 +-0.5 mm (0.28 +-0.02 in.)
Differential ring gear backlash	0.09 to 0.16 mm (0.0034 to 0.0063 in.)
Companion flange runout	Maximum vertical runout: 0.06 mm (0.0023 in.) Maximum lateral runout: 0.07 mm (0.0028 in.)
Drive pinion preload (start torque)	New bearing: 1.31 to 2.18 N*m (13 to 22 kgf*cm, 12 to 19 in.*lbf) Reused bearing: 0.24 to 0.37 N*m (2 to 4 kgf*cm, 2 to 3 in.*lbf)
Total preload (Drive pinion preload plus)	New bearing: 1.18 to 1.90 N*m (12 to 19 kgf*cm, 10 to 17 in.*lbf) Reused bearing: 0.99 to 1.63 N*m (10 to 17 kgf*cm, 9 to 14 in.*lbf)
Side gear shaft plate washer thickness mm (in.)	1.59 to 1.61 (0.0625 to 0.0633) 1.62 to 1.64 (0.0637 to 0.0649) 1.65 to 1.67 (0.0650 to 0.0657) 1.68 to 1.70 (0.0661 to 0.0669) 1.71 to 1.73 (0.0673 to 0.0681) 1.74 to 1.76 (0.0685 to 0.0693) 1.77 to 1.79 (0.0697 to 0.0705) 1.80 to 1.82 (0.0709 to 0.0717) 1.83 to 1.85 (0.0720 to 0.0728) 1.86 to 1.88 (0.0732 to 0.0740) 1.89 to 1.91 (0.0744 to 0.0752) 1.92 to 1.94 (0.0756 to 0.0764) 1.95 to 1.97 (0.0768 to 0.0776) 1.98 to 2.00 (0.0780 to 0.0787) 2.02 to 2.04 (0.0795 to 0.0803) 2.04 to 2.06 (0.0803 to 0.0811) 2.07 to 2.09 (0.0815 to 0.0823) 2.10 to 2.12 (0.0827 to 0.0835) 2.13 to 2.15 (0.0839 to 0.0846) 2.16 to 2.18 (0.0850 to 0.0858) 2.19 to 2.21 (0.0862 to 0.0870) 2.22 to 2.24 (0.0874 to 0.0882) 2.25 to 2.27 (0.0886 to 0.0894) 2.28 to 2.30 (0.0898 to 0.0906) 2.31 to 2.33 (0.0909 to 0.0917) 2.34 to 2.36 (0.0921 to 0.0929) 2.37 to 2.39 (0.0930 to 0.0941) 2.40 to 2.42 (0.0945 to 0.0953) 2.43 to 2.45 (0.0957 to 0.0965) 2.46 to 2.48 (0.0969 to 0.0976) 2.49 to 2.51 (0.0980 to 0.0988) 2.52 to 2.54 (0.0992 to 0.1000) 2.55 to 2.57 (0.1004 to 0.1012) 2.58 to 2.60 (0.1016 to 0.1024) 2.61 to 2.63 (0.1028 to 0.1035) 2.64 to 2.66 (0.1039 to 0.1047)

Rear differential drive pinion washer thickness mm (in.)	1.695 to 1.705 (0.0667 to 0.0671)
	1.705 to 1.715 (0.0671 to 0.0675)
	1.715 to 1.725 (0.0675 to 0.0679)
	1.725 to 1.735 (0.0679 to 0.0683)
	1.735 to 1.745 (0.0683 to 0.0687)
	1.745 to 1.755 (0.0687 to 0.0690)
	1.755 to 1.765 (0.0690 to 0.0695)
	1.765 to 1.775 (0.0695 to 0.0699)
	1.775 to 1.785 (0.0699 to 0.0703)
	1.785 to 1.795 (0.0703 to 0.0707)
	1.795 to 1.805 (0.0707 to 0.0711)
	1.805 to 1.815 (0.0711 to 0.0715)
	1.815 to 1.825 (0.0715 to 0.0719)
	1.825 to 1.835 (0.0719 to 0.0720)
	1.835 to 1.845 (0.0720 to 0.0726)
	1.845 to 1.855 (0.0726 to 0.0730)
	1.855 to 1.865 (0.0730 to 0.0734)
	1.865 to 1.875 (0.0734 to 0.0738)
	1.875 to 1.885 (0.0738 to 0.0742)
	1.885 to 1.895 (0.0742 to 0.0746)
	1.895 to 1.905 (0.0746 to 0.0750)
	1.905 to 1.915 (0.0750 to 0.0754)
	1.915 to 1.925 (0.0754 to 0.0758)
	1.925 to 1.935 (0.0758 to 0.0762)
	1.935 to 1.945 (0.0762 to 0.0766)
	1.945 to 1.955 (0.0766 to 0.0770)
	1.955 to 1.965 (0.0770 to 0.0774)
	1.965 to 1.975 (0.0774 to 0.0778)
	1.975 to 1.985 (0.0778 to 0.0781)
	1.985 to 1.995 (0.0781 to 0.0785)
	1.995 to 2.005 (0.0785 to 0.0789)
	2.005 to 2.015 (0.0789 to 0.0793)
	2.015 to 2.025 (0.0793 to 0.0797)
	2.025 to 2.035 (0.0797 to 0.0801)
	2.035 to 2.045 (0.0801 to 0.0805)
	2.045 to 2.055 (0.0805 to 0.0809)
	2.055 to 2.065 (0.0809 to 0.0813)
	2.065 to 2.075 (0.0813 to 0.0817)
	2.075 to 2.085 (0.0817 to 0.0821)
	2.085 to 2.095 (0.0821 to 0.0825)
	2.095 to 2.105 (0.0825 to 0.0829)
	2.105 to 2.115 (0.0829 to 0.0833)
	2.115 to 2.125 (0.0833 to 0.0837)
	2.125 to 2.135 (0.0837 to 0.0841)
	2.135 to 2.145 (0.0841 to 0.0844)
	2.145 to 2.155 (0.0844 to 0.0848)
	2.155 to 2.165 (0.0848 to 0.0852)
	2.165 to 2.175 (0.0852 to 0.0856)
	2.175 to 2.185 (0.0856 to 0.0860)
	2.185 to 2.195 (0.0860 to 0.0864)
	2.195 to 2.205 (0.0864 to 0.0868)

Difference of dimension A and B mm (in.): Transmission coupling shim thickness mm (in.)	3.96 to 4.01 (0.148 to 0.154): 1.98 to 2.02 (0.078 to 0.080) 4.26 to 4.31 (0.161 to 0.168): 2.28 to 2.32 (0.090 to 0.091) 4.56 to 4.61 (0.174 to 0.181): 2.58 to 2.62 (0.102 to 0.103) 3.81 to 3.86 (0.141 to 0.148): 1.83 to 1.87 (0.072 to 0.074) 4.11 to 4.16 (0.154 to 0.161): 2.13 to 2.17 (0.084 to 0.085) 4.41 to 4.46 (0.168 to 0.174): 2.43 to 2.47 (0.096 to 0.097) 3.71 to 3.76 (0.146 to 0.148): 1.73 to 1.77 (0.068 to 0.070) 3.76 to 3.81 (0.148 to 0.150): 1.78 to 1.82 (0.070 to 0.072) 3.86 to 3.91 (0.151 to 0.154): 1.88 to 1.92 (0.074 to 0.076) 3.91 to 3.96 (0.154 to 0.156): 1.93 to 1.97 (0.076 to 0.078) 4.01 to 4.06 (0.158 to 0.160): 2.03 to 2.07 (0.080 to 0.081) 4.06 to 4.11 (0.160 to 0.162): 2.08 to 2.12 (0.082 to 0.083) 4.16 to 4.21 (0.164 to 0.166): 2.18 to 2.22 (0.086 to 0.087) 4.21 to 4.26 (0.166 to 0.168): 2.23 to 2.27 (0.088 to 0.089) 4.31 to 4.36 (0.170 to 0.172): 2.33 to 2.37 (0.092 to 0.093) 4.36 to 4.41 (0.172 to 0.174): 2.38 to 2.42 (0.094 to 0.095) 4.46 to 4.51 (0.176 to 0.178): 2.48 to 2.52 (0.098 to 0.099) 4.51 to 4.56 (0.178 to 0.180): 2.53 to 2.57 (0.100 to 0.101) 4.61 to 4.66 (0.181 to 0.183): 2.63 to 2.67 (0.104 to 0.105) 4.66 to 4.71 (0.183 to 0.185): 2.68 to 2.72 (0.106 to 0.107)
---	--

TORQUE SPECIFICATIONS

Differential

Part Tightened	N*m	kgf*cm	ft.*lbf
Rear differential No. 2 support x Rear suspension member	86	877	63
Rear differential support x Rear suspension member	140	1,428	103
Rear differential No. 2 support x Rear differential Rear differential No. 1 support x Rear differential	55	561	41
Rear differential support x Rear differential	98	999	72
Drain plug x Differential carrier Filler plug x Differential carrier	39	398	29
Electromagnetic coupling x Stud bolt	8.0	82	71 in.*lbf
Electromagnetic coupling x Differential carrier	19.6	200	14
Yoke x Differential carrier	5.0	51	44 in.*lbf
Drive pinion nut x Differential drive pinion	245 or less	2,498 or less	181 or less
Differential side bearing retainer x Differential carrier	34.3	350	25
Differential carrier x Differential breather plug oil deflector	5.0	51	44 in.*lbf
Differential ring gear x Differential case	90	918	66

SS